



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:  
MAITLAND, et al.

Serial No.: 09/508,874

Filed: 8 June, 2000

For: ELECTRICALLY CONDUCTIVE NON-  
AQUEOUS WELLBORE FLUIDS

Group Art Unit: 1712

Examiner: P. Tucker


Atty. Dkt. No.: 11836.0689.PCUS00

#10/B  
6/7/02  
TC

RESPONSE TO OFFICE ACTION

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JUN 06 2002  
TC 1700

Commissioner for Patents  
Washington, D.C. 20231

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 Signature	

In response to the Office Action dated 30 January 2002, Applicants hereby request the following:

Please make the following amendments:

IN THE CLAIMS:

B<sup>1</sup>  
22. (Amended) A wellbore fluid of the water-in-oil emulsion type useful for electrical well-logging comprising a discontinuous aqueous or brine phase, solids, and having a non-aqueous continuous liquid phase that comprises a polar organic liquid POL which exhibits a dielectric constant of at least about 5.0 and a Hildebrand Solubility Parameter of at least about  $17 \text{ (J cm}^{-3})^{1/2}$  so that the liquid phase exhibits an electrical conductivity of not less than  $10 \mu\text{S m}^{-1}$  at 1 kHz.